

Arizona Department of Environmental Quality  
Annual Report  
**Disinfection Byproducts**  
**TTHM HAA5**

[ \_ / \_ / \_ / \_ / \_ ]    [ \_\_\_\_\_ ]    [ \_\_\_\_\_ ]  
System ID                      System Name                      Report Date

This report is for Year \_\_\_\_\_

Public water system monitoring frequency is (check one):    \_\_\_ routine            \_\_\_ reduced

How many annual samples (TTHM/HAA5 ) are required for the public water system?                      \_\_\_\_\_

A            How many TTHM samples were collected and analyzed this year?                      \_\_\_\_\_

B            \*\*Report annual average for this annual TTHM sampling event:                      \_\_\_\_\_(mg/L)  
*if only one sample collected this year, report result*

C            Does annual TTHM average exceed MCL (0.080 mg/L)?                      yes \_\_\_\_\_            no \_\_\_\_\_

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A            How many HAA5 samples were collected and analyzed this year?                      \_\_\_\_\_

B            \*\*Report annual average for this annual HAA5 sampling event:                      \_\_\_\_\_ (mg/L)  
*if only one sample collected this year, report result*

C            Does annual HAA5 average exceed MCL (0.060 mg/L)?                      yes \_\_\_\_\_            no \_\_\_\_\_

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\*\* As per R18-4-214.01 (I1), All samples collected and analyzed shall be included in determining compliance, even if that number is greater than the minimum required.

**>>>>> Report Information <<<<<**

Annual report prepared by (name) : \_\_\_\_\_

I hereby claim that all the information in this report is accurate and current:

Official signature: \_\_\_\_\_

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Arizona Department of Environmental Quality  
**Annual Report Form Guidance**  
Disinfection Byproducts  
TTHM, HAA5

*The following applies to any public water system (PWS) that adds a halogenated disinfectant during the treatment process, and is required to monitor annually for disinfection byproducts.*

GENERAL INFORMATION - Who is required to monitor annually?

The Disinfection Byproducts Annual Report Form applies to:

- Surface Water systems serving < 500 people and Groundwater systems serving < 10,000 people- routine monitoring;
- Surface Water systems serving 500-9,999 people and Groundwater systems serving  $\geq$  10,000 people- reduced monitoring.

Compliance for TTHM and HAA5 are based on a running annual average. If PWS collects only one sample/year, then the sample result would be reported instead of an average.

1. Surface Water systems serving < 500 people and Groundwater systems serving <10,000 people
  - A. Routine Monitoring -one sample/year/WTP:
    - sample is collected in the distribution system;
    - sample is collected from a location that reflects maximum residence time
    - sample is collected during the month of warmest water temperature
  - B. \*Reduced Monitoring - one sample/3 years/WTP (use Disinfection Byproducts Triennial Report form)  
**applies to Groundwater systems serving < 10,000 people only;**
    - sample is collected in the distribution system;
    - sample is collected from a location that reflects maximum residence time.
    - sample is collected during the month of warmest water temperature
2. Surface Water systems serving 500-9,999 people or Groundwater systems serving  $\geq$  10,000 people
  - A. Routine Monitoring -one sample/quarter/WTP (use Disinfection Byproducts Quarterly Report form)
    - sample is collected in the distribution system;
    - sample is collected from a location that reflects maximum residence time.
  - B. \*Reduced Monitoring-one sample/year/WTP:
    - sample is collected in the distribution system;
    - sample is collected from a location that reflects maximum residence time.
    - sample is collected during the month of warmest water temperature

\*Reduced Monitoring - The following criteria must be met before a PWS can begin reduced monitoring:

- ADEQ has received and approved a copy of the system's monitoring plan;
- Surface Water systems serving <10,000 and Groundwater systems serving  $>$  10,000 people have a running annual averages for TTHM and HAA5 of  $\leq$  0.040 mg/L and 0.030 mg/L respectively for at least one year.
- Groundwater systems serving < 10,000 people have an annual average for TTHM and HAA5 of  $\leq$  0.020 mg/L and 0.0150 mg/L respectively, for at least one year, or have annual averages for TTHM and HAA5 of  $\leq$  0.040 mg/L and 0.030 mg/L respectively, for the last two years.
- A Surface Water system documents that the source water's annual average TOC level is  $\leq$  4.0 mg/L prior to any treatment;

Increased Monitoring Levels

Surface Water systems serving 500-9,999 people and Groundwater systems serving  $\geq$ 10,000 people with a TTHM or HAA5 annual average that exceeds 0.060 mg/L or 0.045 mg/L respectively, shall resume TTHM and HAA5 routine quarterly monitoring in the quarter immediately following the monitoring period in which levels were exceeded, and shall report on DWAR 16.1 Disinfection Byproducts Quarterly Report form.

Surface Water systems serving < 500 people and Groundwater systems serving < 10,000 people with an annual average that exceeds the MCL for TTHM or HAA5 shall increase TTHM and HAA5 monitoring to quarterly in the quarter immediately following the monitoring period in which the MCL was exceeded, and shall report on DWAR 16.1 Disinfection Byproducts Quarterly Report form.